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Reviewer: Durreshwar Anjum

Timestamp: [year=2008; month=5; day=29; hr=9; min=41; sec=33; ms=422;]

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Application No: 09733306 Version No: 5.0

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Finished: 2008-05-09 15:51:43.843
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Total Errors: 0
No. of SeqIDs Defined: 6
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SEQUENCE LISTING

<110> Schwarz, Margaret A.

<120> METHODS OF FACILITATING VASCULAR GROWTH IN CARDIAC MUSCLE AND
METHODS FOR THE PRODUCTION OF RECOMBINANT EMAP II

<130> 9022-20

<140> 09733306

<141> 2000-12-08

<150> US 60/171,874

<151> 1999-12-23

<150> US 60/197,558

<151> 2000-04-17

<150> US 60/231,759

<151> 2000-09-12

<150> US 60/241,138

<151> 2000-10-17

<160> 6

<170> PatentIn version 3.3

<210> 1

<211> 14

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic polypeptide

<400> 1

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<222> (64)..(993)

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Ala	Glu	Ala	Asp	Gln	Ile	Ile	Glu	Tyr	Leu	Lys	Gln	Gln	Val	Ala	Leu	
			20					25					30			
ctt	aag	gag	aaa	gca	att	ttg	cag	gca	aca	atg	aga	gaa	gaa	aag	aaa	204
Leu	Lys	Glu	Lys	Ala	Ile	Leu	Gln	Ala	Thr	Met	Arg	Glu	Glu	Lys	Lys	
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ctt	cga	gtt	gaa	aat	gct	aaa	ctg	aaa	aaa	gaa	ata	gaa	gag	cta	aag	252
Leu	Arg	Val	Glu	Asn	Ala	Lys	Leu	Lys	Lys	Glu	Ile	Glu	Glu	Leu	Lys	
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Gln	Glu	Leu	Ile	Leu	Ala	Glu	Ile	His	Asn	Gly	Val	Glu	Gln	Val	Arg	
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Val	Arg	Leu	Ser	Thr	Pro	Leu	Gln	Thr	Asn	Cys	Thr	Ala	Ser	Glu	Ser	
80					85				90					95		
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Val	Val	Gln	Ser	Pro	Ser	Val	Ala	Thr	Thr	Ala	Ser	Pro	Ala	Thr	Lys	
			100					105					110			
gag	cag	atc	aaa	gcg	gga	gaa	gaa	aag	aag	gtg	aaa	gag	aag	act	gaa	444
Glu	Gln	Ile	Lys	Ala	Gly	Glu	Glu	Lys	Lys	Val	Lys	Glu	Lys	Thr	Glu	
			115					120				125				
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Lys	Lys	Gly	Glu	Lys	Lys	Glu	Lys	Gln	Gln	Ser	Ala	Ala	Ala	Ser	Thr	
	130						135				140					
gac	tcc	aag	cct	atc	gac	gca	tcg	cgt	ctg	gat	ctt	cga	att	ggc	tgt	540
Asp	Ser	Lys	Pro	Ile	Asp	Ala	Ser	Arg	Leu	Asp	Leu	Arg	Ile	Gly	Cys	
	145					150					155					
att	gtt	act	gcc	aag	aag	cac	cct	gat	gca	gat	tca	ctg	tat	gtg	gag	588
Ile	Val	Thr	Ala	Lys	Lys	His	Pro	Asp	Ala	Asp	Ser	Leu	Tyr	Val	Glu	
160					165				170					175		
gaa	gta	gat	gtg	gga	gaa	gca	gcc	ccg	cgc	acg	gtc	gtc	agc	ggg	ctg	636
Glu	Val	Asp	Val	Gly	Glu	Ala	Ala	Pro	Arg	Thr	Val	Val	Ser	Gly	Leu	
			180					185					190			
gtg	aat	cat	gtt	cct	cta	gaa	cag	atg	caa	aat	cgt	atg	gtg	gtt	tta	684
Val	Asn	His	Val	Pro	Leu	Glu	Gln	Met	Gln	Asn	Arg	Met	Val	Val	Leu	
			195					200				205				
ctc	tgt	aat	ctg	aag	cct	gca	aag	atg	cgg	gga	gtt	ctg	tct	caa	gcc	732
Leu	Cys	Asn	Leu	Lys	Pro	Ala	Lys	Met	Arg	Gly	Val	Leu	Ser	Gln	Ala	
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225

230

235

ccc aac ggg tcc gtt cct ggg gac aga att act ttt gat gct ttt cct
Pro Asn Gly Ser Val Pro Gly Asp Arg Ile Thr Phe Asp Ala Phe Pro
240245250255

828

gga gag cct gac aag gag cta aac cct aag aag aag atc tgg gag cag
Gly Glu Pro Asp Lys Glu Leu Asn Pro Lys Lys Lys Ile Trp Glu Gln
260265270

876

atc cag cct gac ctg cac acc aat gct gag tgt gtg gcc aca tac aaa
Ile Gln Pro Asp Leu His Thr Asn Ala Glu Cys Val Ala Thr Tyr Lys
275280285

924

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290295300

972

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Met Ala Asn Ser Gly Ile Lys
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1086

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<212> PRT

<213> Mus musculus

<400> 3

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354045

Arg Val Glu Asn Ala Lys Leu Lys Lys Glu Ile Glu Glu Leu Lys Gln
505560

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65707580

Arg Leu Ser Thr Pro Leu Gln Thr Asn Cys Thr Ala Ser Glu Ser Val
859095

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145						150						155			160		
Val	Thr	Ala	Lys	Lys	His	Pro	Asp	Ala	Asp	Ser	Leu	Tyr	Val	Glu	Glu		
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			195					200					205				
Cys	Asn	Leu	Lys	Pro	Ala	Lys	Met	Arg	Gly	Val	Leu	Ser	Gln	Ala	Met		
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Val	Met	Cys	Ala	Ser	Ser	Pro	Glu	Lys	Val	Glu	Ile	Leu	Ala	Pro	Pro		
225					230					235						240	
Asn	Gly	Ser	Val	Pro	Gly	Asp	Arg	Ile	Thr	Phe	Asp	Ala	Phe	Pro	Gly		
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Glu	Pro	Asp	Lys	Glu	Leu	Asn	Pro	Lys	Lys	Lys	Ile	Trp	Glu	Gln	Ile		
			260					265					270				
Gln	Pro	Asp	Leu	His	Thr	Asn	Ala	Glu	Cys	Val	Ala	Thr	Tyr	Lys	Gly		
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Ala	Pro	Phe	Glu	Val	Lys	Gly	Lys	Gly	Val	Cys	Arg	Ala	Gln	Thr	Met		
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<213> Homo sapiens

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Lys Glu Lys Ala Ile Leu Gln Ala Thr Leu Arg Glu Glu Lys Lys Leu
35 40 45

Arg Val Glu Asn Ala Lys Leu Lys Lys Glu Ile Glu Glu Leu Lys Gln
50 55 60

Glu Leu Ile Gln Ala Glu Ile Gln Asn Gly Val Lys Gln Ile Ala Phe
65 70 75 80

Pro Ser Gly Thr Pro Leu His Ala Asn Ser Met Val Ser Glu Asn Val
85 90 95

Ile Gln Ser Thr Ala Val Thr Thr Val Ser Ser Gly Thr Lys Glu Gln
100 105 110

Ile Lys Gly Gly Thr Gly Asp Glu Lys Lys Ala Lys Glu Lys Ile Glu
115 120 125

Lys Lys Gly Glu Lys Lys Glu Lys Lys Gln Gln Ser Ile Ala Gly Ser
130 135 140

Ala Asp Ser Lys Pro Ile Asp Val Ser Arg Leu Asp Leu Arg Ile Gly
145 150 155 160

Cys Ile Ile Thr Ala Arg Lys His Pro Asp Ala Asp Ser Leu Tyr Val
165 170 175

Glu Glu Val Asp Val Gly Glu Ile Ala Pro Arg Thr Val Val Ser Gly
180 185 190

Leu Val Asn His Val Pro Leu Glu Gln Met Gln Asn Arg Met Val Ile
195 200 205

Leu Leu Cys Asn Leu Lys Pro Ala Lys Met Arg Gly Val Leu Ser Gln
210 215 220

Ala Met Val Met Cys Ala Ser Ser Pro Glu Lys Ile Glu Ile Leu Ala
225 230 235 240

Pro Pro Asn Gly Ser Val Pro Gly Asp Arg Ile Thr Phe Asp Ala Phe
245 250 255

Pro Gly Glu Pro Asp Lys Glu Leu Asn Pro Lys Lys Lys Ile Trp Glu
260 265 270

Gln Ile Gln Pro Asp Leu His Thr Asn Asp Glu Cys Val Ala Thr Tyr
275 280 285

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Thr Met Ser Asn Ser Gly Ile Lys
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<212> PRT
<213> Homo sapiens

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20 25 30

Val Asp Val Gly Glu Ile Ala Pro Arg Thr Val Val Ser Gly Leu Val
35 40 45

Asn His Val Pro Leu Glu Gln Met Gln Asn Arg Met Val Ile Leu Leu
50 55 60

Cys Asn Leu Lys Pro Ala Lys Met Arg Gly Val Leu Ser Gln Ala Met
65 70 75 80

Val Met Cys Ala Ser Ser Pro Glu Lys Ile Glu Ile Leu Ala Pro Pro
85 90 95

Asn Gly Ser Val Pro Gly Asp Arg Ile Thr Phe Asp Ala Phe Pro Gly
100 105 110

Glu Pro Asp Lys Glu Leu Asn Pro Lys Lys Lys Ile Trp Glu Gln Ile
115 120 125

Gln Pro Asp Leu His Thr Asn Asp Glu Cys Val Ala Thr Tyr Lys Gly
130 135 140

Val Pro Phe Glu Val Lys Gly Lys Gly Val Cys Arg Ala Gln Thr Met
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Ser Asn Ser Gly Ile Lys
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<213> Artificial

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<223> Synthetic polypeptide

<400> 6

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